

**VINAYAKA MISSIONS RESEARCH FOUNDATION, SALEM**  
(Deemed to be University)  
**M.SC.(RADIOLOGY AND IMAGING TECHNOLOGY)**  
**DEGREE EXAMINATION – August 2019**  
**First Year**

**RADIATION SAFETY AND PROTECTION**

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

**I. Write a Long essay on:** **(2 x 20 = 40)**

1. Guidelines for radiation protection.
2. Biological effect of radiation.

**II. Write short notes on:** **(10 x 6 = 60)**

3. Write short on KERMA.
4. Explain about LD50.
5. Hereditary effect.
6. G.M counter.
7. CTDI dose index.
8. 2D and 3D image technique.
9. Describe about ionization chamber.
- 10.X-ray machine installation procedures.
- 11.Dose Area product (DAP).
- 12.Intervention radiography safety procedures.

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